

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0003] The invention may best be understood by referring to the following description and accompanying drawings that are used to illustrate embodiments of the invention. In the drawings:

[0004] **Figure 1** shows an approach for focusing cells in a micro-scale system by simultaneous flow from two side channels into a main channel through which the cells are being flowed.

[0005] **Figure 2A** shows a front perspective view of a hydrodynamic focusing device, according to an embodiment of the invention.

[0006] **Figure 2B** shows a front perspective view of a hydrodynamic focusing device having a small-volume focusing manifold, according to an embodiment of the invention

[0007] **Figure 3** shows a front perspective view of a hydrodynamic focusing device, according to another embodiment of the invention.

[0008] **Figure 4** shows a front perspective view of a hydrodynamic focusing device, according to yet another embodiment of the invention.

[0009] **Figure 5** shows conceptualized simulation results at a cross section of the outlet channel indicated by a section line 5-5 shown in Figure 2, according to an embodiment of the invention.

[0010] **Figure 6** shows conceptualized simulation results at a cross section of the outlet channel indicated by a section line 6-6 shown in Figure 3, according to an embodiment of the invention.

[0011] **Figure 7** shows conceptualized simulation results at a cross section of the outlet channel indicated by a section line 7-7 shown in Figure 4, according to an embodiment of the invention.

[0012] **Figure 8A-^D~~C~~** show a method for forming a hydrodynamic focusing system by a "membrane sandwich" method, according to one embodiment of the invention.

[0013] **Figure 9** shows a sample analysis system in which an embodiment of the invention may be implemented.

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